



# LPI

## Exam Questions 101-500

LPIC-1 Exam 101 - Part 1 of 2 - version 5.0

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#### NEW QUESTION 1

- (Exam Topic 1)

What is the first program that is usually started, at boot time, by the Linux kernel when using SysV init?

- A. /lib/init.so
- B. /sbin/init
- C. /etc/rc.d/rcinit
- D. /proc/sys/kernel/init
- E. /boot/init

**Answer: B**

#### NEW QUESTION 2

- (Exam Topic 1)

During a system boot cycle, what is the program that is run after the BIOS completes its tasks?

- A. The bootloader
- B. The inetd program
- C. The init program
- D. The kernel

**Answer: A**

#### NEW QUESTION 3

- (Exam Topic 1)

You are having some trouble with a disk partition and you need to do maintenance on this partition but your users home directories are on it and several are logged in. Which command would disconnect the users and allow you to safely execute maintenance tasks?

- A. telinit 1
- B. shutdown -r now
- C. killall -9 inetd
- D. /bin/netstop --maint
- E. /etc/rc.d/init.d/network stop

**Answer: A**

#### NEW QUESTION 4

- (Exam Topic 1)

Which SysV init configuration file should be modified to disable the ctrl-alt-delete key combination?

- A. /etc/keys
- B. /proc/keys
- C. /etc/inittab
- D. /proc/inittab
- E. /etc/reboot

**Answer: C**

#### NEW QUESTION 5

- (Exam Topic 1)

Which of the following options for the kernel's command line changes the systemd boot target to rescue.target instead of the default target?

- A. systemd.target=rescue.target
- B. systemd.runlevel=rescue.target
- C. systemd.service=rescue.target
- D. systemd.default=rescue.target
- E. systemd.unit=rescue.target

**Answer: E**

#### NEW QUESTION 6

- (Exam Topic 2)

Which of the following commands lists the dependencies of a given dpkg package?

- A. apt-cache depends-onpackage
- B. apt-cache dependencies package
- C. apt-cache depends package
- D. apt-cache requires package

**Answer: C**

#### NEW QUESTION 7

- (Exam Topic 2)

Which of the following is correct when talking about mount points?

- A. Every existing directory can be used as a mount point.
- B. Only empty directories can be used as a mount point.
- C. Directories need to have the SetUID flag set to be used as a mount point.
- D. Files within a directory are deleted when the directory is used as a mount point.

**Answer:** A

#### NEW QUESTION 8

- (Exam Topic 2)

Which option to the yum command will update the entire system? (Specify ONLY the option name without any additional parameters.)

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

update, upgrade

#### NEW QUESTION 9

- (Exam Topic 2)

To what environment variable will you assign or append a value if you need to tell the dynamic linker to look in a build directory for some of a program's shared libraries?

- A. LD\_LOAD\_PATH
- B. LD\_LIB\_PATH
- C. LD\_LIBRARY\_PATH
- D. LD\_SHARE\_PATH
- E. LD\_RUN\_PATH

**Answer:** C

#### NEW QUESTION 10

- (Exam Topic 2)

After modifying GNU GRUB's configuration file, which command must be run for the changes to take effect?

- A. kill -HUP \$(pidof grub)
- B. grub-install
- C. grub
- D. No action is required

**Answer:** D

#### NEW QUESTION 10

- (Exam Topic 2)

Which of the following commands overwrites the bootloader located on /dev/sda without overwriting the partition table or any data following it?

- A. dd if=/dev/zero of=/dev/sda bs=512
- B. dd if=/dev/zero of=/dev/sda bs=512 count=1
- C. dd if=/dev/zero of=/dev/sda bs=440 count=1
- D. dd if=/dev/zero of=/dev/sda bs=440

**Answer:** C

#### NEW QUESTION 13

- (Exam Topic 2)

Which of the following environment variables overrides or extends the list of directories holding shared libraries?

- A. LD\_LOAD\_PATH
- B. LD\_LIB\_PATH
- C. LD\_LIBRARY\_PATH
- D. LD\_SHARE\_PATH
- E. LD\_RUN\_PATH

**Answer:** C

#### NEW QUESTION 17

- (Exam Topic 2)

To prevent users from being able to fill up the / partition, the \_\_\_\_\_ directory should be on a separate partition if possible because it is world writeable.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

/tmp, tmp

#### NEW QUESTION 21

- (Exam Topic 2)

Which of the following options is used in a GRUB Legacy configuration file to define the amount of time that the GRUB menu will be shown to the user?

- A. hidemenu
- B. splash
- C. timeout
- D. showmenu

**Answer: C**

#### NEW QUESTION 23

- (Exam Topic 2)

What is the difference between the --remove and the --purge action with the dpkg command?

- A. --remove removes the program, --purge also removes the config files
- B. --remove only removes the program, --purge only removes the config files
- C. --remove removes a package, --purge also removes all packages dependent on it
- D. --remove removes only the package file itself, --purge removes all files related to the package

**Answer: A**

#### NEW QUESTION 26

- (Exam Topic 2)

An administrator has issued the following command: grub-install --root-directory=/custom-grub /dev/sda

In which directory will new configuration files be found? (Provide the full directory path only without the filename)

- A. Mastered
- B. Not Mastered

**Answer: A**

#### Explanation:

/custom-grub/boot/grub/, /custom-grub/boot/grub

#### NEW QUESTION 31

- (Exam Topic 2)

When removing a package, which of the following dpkg options will completely remove the files including configuration files?

- A. --clean
- B. --delete
- C. --purge
- D. --remove

**Answer: C**

#### NEW QUESTION 34

- (Exam Topic 2)

When using rpm --verify to check files created during the installation of RPM packages, which of the following information is taken into consideration? (Choose THREE correct answers.)

- A. Timestamps
- B. MD5 checksums
- C. Inodes
- D. File sizes
- E. GnuPG signatures

**Answer: ABD**

#### NEW QUESTION 37

- (Exam Topic 2)

Which world-writable directory should be placed on a separate partition in order to prevent users from being able to fill up the / filesystem? (Specify the full path to the directory.)

- A. Mastered
- B. Not Mastered

**Answer: A**

#### Explanation:

/tmp, tmp,/var/tmp, /tmp/, /var/tmp/

#### NEW QUESTION 40

- (Exam Topic 2)

Typically, which top level system directory is used for files and data that change regularly while the system is running and are to be kept between reboots? (Specify only the top level directory)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

/var, /var/, var, var/

#### NEW QUESTION 45

- (Exam Topic 2)

Which of the following commands can be used to perform a full text search on all available packages on a Debian system?

- A. apt
- B. apt-cache
- C. apt-get
- D. apt-search
- E. dpkg

**Answer:** B

#### NEW QUESTION 50

- (Exam Topic 2)

What can the Logical Volume Manager (LVM) be used for? (Choose THREE correct answers.)

- A. To create RAID 9 arrays.
- B. To dynamically change the size of logical volumes.
- C. To encrypt logical volumes.
- D. To create snapshots.
- E. To dynamically create or delete logical volumes.

**Answer:** BDE

#### NEW QUESTION 53

- (Exam Topic 3)

Which of the following commands will reduce all consecutive spaces down to a single space?

- A. `tr 's' ' ' < a.txt > b.txt`
- B. `tr -c ' ' < a.txt > b.txt`
- C. `tr -d ' ' < a.txt > b.txt`
- D. `tr -r ' '\n' < a.txt > b.txt`
- E. `tr -s ' ' < a.txt > b.txt`

**Answer:** E

#### NEW QUESTION 55

- (Exam Topic 3)

What is the difference between the `i` and `a` commands of the `vi` editor?

- A. `i` (interactive) requires the user to explicitly switch between `vi` modes whereas `a` (automatic) switches modes automatically.
- B. `i` (insert) inserts text before the current cursor position whereas `a` (append) inserts text after the cursor.
- C. `i` (independent rows) starts every new line at the first character whereas `a` (aligned rows) keeps the indentation of the previous line.
- D. `i` (interrupt) temporarily suspends editing of a file to the background whereas `a` (abort) terminates editing.

**Answer:** B

#### NEW QUESTION 60

- (Exam Topic 3)

Which of the following commands determines the type of a file by using a definition database file which contains information about all common file types?

- A. `magic`
- B. `type`
- C. `file`
- D. `pmagic`
- E. `hash`

**Answer:** C

#### NEW QUESTION 65

- (Exam Topic 3)

Which of the following commands displays the contents of a gzip compressed tar archive?

- A. `gzip archive.tgz | tar xvf -`
- B. `tar ztf archive.tgz`

- C. gzip -d archive.tgz | tar tvf -
- D. tar cf archive.tgz

**Answer:** B

#### NEW QUESTION 67

- (Exam Topic 3)

In the vi editor, which of the following commands will copy the current line into the vi buffer?

- A. c
- B. cc
- C. 1c
- D. yy
- E. 1y

**Answer:** D

#### NEW QUESTION 70

- (Exam Topic 3)

Which grep command will print only the lines that do not end with a / in the file foo?

- A. grep '\$' foo
- B. grep '/#' foo
- C. grep -v '\$' foo
- D. grep -v '/#' foo

**Answer:** C

#### NEW QUESTION 73

- (Exam Topic 3)

Which of the following files, located in the user home directory, is used to store the Bash history?

- A. .bash\_history
- B. .bash\_histfile
- C. .history
- D. .bashrc\_history
- E. .history\_bash

**Answer:** A

#### NEW QUESTION 75

- (Exam Topic 3)

What does the ? symbol within regular expressions represent?

- A. Match the preceding qualifier one or more times.
- B. Match the preceding qualifier zero or more times.
- C. Match the preceding qualifier zero or one times.
- D. Match a literal ?character.

**Answer:** C

#### NEW QUESTION 76

- (Exam Topic 3)

Which of the following commands moves and resumes in the background the last stopped shell job?

- A. run
- B. bg
- C. fg
- D. back

**Answer:** B

#### NEW QUESTION 80

- (Exam Topic 3)

What command will generate a list of user names from /etc/passwd along with their login shell?

- A. column -s : 1,7 /etc/passwd
- B. chop -c 1,7 /etc/passwd
- C. colrm 1,7 /etc/passwd
- D. cut -d: -f1,7 /etc/passwd

**Answer:** D

#### NEW QUESTION 83

- (Exam Topic 3)

What is the effect of the egrep command when the -v option is used?

- A. It enables color to highlight matching parts.
- B. It only outputs non-matching lines.
- C. It shows the command's version information.
- D. It changes the output order showing the last matching line first.

**Answer: B**

#### NEW QUESTION 85

- (Exam Topic 3)

In compliance with the FHS, in which of the directories are man pages found?

- A. /usr/share/man
- B. /opt/man
- C. /usr/doc/
- D. /var/pkg/man
- E. /var/man

**Answer: A**

#### NEW QUESTION 86

- (Exam Topic 3)

Which of the following signals is sent to a process when the key combination CTRL+C is pressed on the keyboard?

- A. SIGTERM
- B. SIGINT
- C. SIGSTOP
- D. SIGKILL

**Answer: B**

#### NEW QUESTION 90

- (Exam Topic 3)

Which of the following commands replaces each occurrence of 'bob' in the file letter with 'Bob' and writes the result to the file newsletter?

- A. sed '/bob/Bob' letter > newsletter
- B. sed s/bob/Bob/ letter < newsletter
- C. sed 's/bob/Bob' letter > newsletter
- D. sed 's/bob/Bob/g' letter > newsletter
- E. sed 's/bob, Bob/' letter > newsletter

**Answer: D**

#### NEW QUESTION 91

- (Exam Topic 3)

What is the maximum niceness value that a regular user can assign to a process with the nice command when executing a new process?

- A. 9
- B. 19
- C. 49
- D. 99

**Answer: B**

#### NEW QUESTION 93

- (Exam Topic 3)

In the vi editor, how can commands such as moving the cursor or copying lines into the buffer be issued multiple times or applied to multiple rows?

- A. By using the command :repeat followed by the number and the command.
- B. By specifying the number right in front of a command such as 4l or 2yj.
- C. By selecting all affected lines using the shift and cursor keys before applying the command.
- D. By issuing a command such as :set repetition=4 which repeats every subsequentcommand 4 times.

**Answer: B**

#### NEW QUESTION 96

- (Exam Topic 3)

Which of the following characters can be combined with a separator string in order to read from the current input source until the separator string, which is on a separate line and without any trailing spaces, is reached?

- A. <<
- B. <|
- C. !<
- D. &<

**Answer: A**

#### NEW QUESTION 101

- (Exam Topic 3)

Which of the following are valid stream redirection operators within Bash? (Choose THREE correct answers.)

- A. <
- B. <<<
- C. >
- D. >>>
- E. %>

**Answer:** ABC

#### NEW QUESTION 106

- (Exam Topic 3)

Which command is used in a Linux environment to create a new directory? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

mkdir, /usr/bin/mkdir

#### NEW QUESTION 111

- (Exam Topic 3)

From a Bash shell, which of the following commands directly executes the instruction from the file /usr/local/bin/runme.sh without starting a subshell? (Please select TWO answers.)

- A. source /usr/local/bin/runme.sh
- B. ./usr/local/bin/runme.sh
- C. /bin/bash /usr/local/bin/runme.sh
- D. /usr/local/bin/runme.sh
- E. run /usr/local/bin/runme.sh

**Answer:** AB

#### NEW QUESTION 114

- (Exam Topic 3)

Which of the following explanations are valid reasons to run a command in the background of your shell?

- A. The command does not need to execute immediately.
- B. The command has to run immediately but the user needs to log out.
- C. The system is being shut down and the command needs to restart execution immediately after the reboot.
- D. The command can run at a lower priority than normal commands run on the command line.

**Answer:** B

#### NEW QUESTION 115

- (Exam Topic 3)

Regarding the command: nice -5 /usr/bin/prog

Which of the following statements is correct?

- A. /usr/bin/prog is executed with a nice level of -5.
- B. /usr/bin/prog is executed with a nice level of 5.
- C. /usr/bin/prog is executed with a priority of -5.
- D. /usr/bin/prog is executed with a priority of 5.

**Answer:** B

#### NEW QUESTION 120

- (Exam Topic 3)

What does the + symbol mean in the following grep regular expression: grep '^d[aei]\+d\$' /usr/share/dict/words

- A. Match the preceding character set ([aei]) one or more times.
- B. Match the preceding character set ([aei]) zero or more times.
- C. Match the preceding character set ([aei]) zero or one times.
- D. Match a literal + symbol.

**Answer:** A

#### NEW QUESTION 124

- (Exam Topic 3)

Which signal is missing from the following command that is commonly used to instruct a daemon to reinitialize itself, including reading configuration files?

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

killall -s \_\_\_\_\_ daemon  
HUP, SIGHUP, 1

**NEW QUESTION 125**

- (Exam Topic 3)

Which of the following statements is correct regarding the command `foo 1> bar`?

- A. The stdout from the command `foo` is appended to the file `bar`.
- B. The stdout from the command `foo` overwrites the file `bar`.
- C. The command `foo` receives its stdin from the file `bar`.
- D. The command `foo` receives its stdin from the stdout of the command `bar`.
- E. The stderr from the command `foo` is saved to the file `bar`.

**Answer:** B

**NEW QUESTION 126**

- (Exam Topic 3)

Which of the following commands kills the process with the PID 123 but allows the process to "clean up" before exiting?

- A. `kill -PIPE 123`
- B. `kill -KILL 123`
- C. `kill -STOP 123`
- D. `kill -TERM 123`

**Answer:** D

**NEW QUESTION 129**

- (Exam Topic 3)

You are trying to make a hard link to an ordinary file but `ln` returns an error. Which of the following could cause this?

- A. The source file is hidden.
- B. The source file is read-only.
- C. The source file is a shell script.
- D. You do not own the source file.
- E. The source and the target are on different filesystems.

**Answer:** E

**NEW QUESTION 130**

- (Exam Topic 3)

Which of the following command sets the Bash variable named `TEST` with the content `FOO`?

- A. `set TEST="FOO"`
- B. `TEST = "FOO"`
- C. `var TEST="FOO"`
- D. `TEST="FOO"`

**Answer:** D

**NEW QUESTION 135**

- (Exam Topic 3)

Which character, added to the end of a command, runs that command in the background as a child process of the current shell?

- A. `!`
- B. `+`
- C. `&`
- D. `%`
- E. `#`

**Answer:** C

**NEW QUESTION 136**

- (Exam Topic 4)

Following the Filesystem Hierarchy Standard (FHS), where should binaries that have been compiled by the system administrator be placed in order to be made available to all users on the system?

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

/usr/local/bin/

**NEW QUESTION 138**

- (Exam Topic 4)

Which of the following commands will produce the following output?

USER	PID	%CPU	%MEM	VSZ	RSS	TTY	STAT	START	TIME	COMMAND
root	1255	4.4	0.9	60716	34824	tty7	Ss+	09:25	19:04	/usr/bin/X :0 -
root	2016	0.0	0.0	1792	560	tty1	Ss+	09:26	0:00	/sbin/getty -8
matt	5204	0.0	0.1	6320	3696	pts/4	Ss	13:12	0:00	bash
matt	5219	0.0	0.0	3988	1624	pts/4	S+	13:12	0:00	man bash
matt	5229	0.0	0.0	3584	932	pts/4	S+	13:12	0:00	pager -s
matt	6768	0.0	0.1	10504	3880	pts/2	S+	15:11	0:00	vi README.txt

- A. jobs
- B. proclist
- C. netstat
- D. ps

**Answer: D**

**NEW QUESTION 142**

- (Exam Topic 4)

Which of the following commands will load a kernel module along with any required dependency modules?

- A. depmod
- B. insmod
- C. modprobe
- D. module\_install
- E. loadmod

**Answer: C**

**NEW QUESTION 143**

- (Exam Topic 4)

What do the permissions -rwsr-xr-x mean for a binary file when it is executed as a command?

- A. The command is SetUID and it will be executed with the effective rights of the owner.
- B. The command will be executed with the effective rights of the group instead of the owner.
- C. The execute flag is not set for the owner.
- D. Therefore the SetUID flag is ignored.
- E. The command will be executed with the effective rights of the owner and group.

**Answer: C**

**NEW QUESTION 145**

- (Exam Topic 4)

In Bash, inserting 2>&1 after a command redirects:

- A. standard error to standard input.
- B. standard input to standard error.
- C. standard output to standard error.
- D. standard error to standard output.
- E. standard output to standard input.

**Answer: C**

**NEW QUESTION 150**

- (Exam Topic 4)

What is the purpose of the Filesystem Hierarchy Standard?

- A. It is a security model used to ensure files are organized according to their permissions and accessibility.
- B. It provides unified tools to create, maintain and manage multiple filesystems in a common way.
- C. It defines a common internal structure of inodes for all compliant filesystems.
- D. It is a distribution neutral description of locations of files and directories.

**Answer: D**

**NEW QUESTION 151**

- (Exam Topic 4)

Which of the following commands enables the setuid (suid) permission on the executable /bin/foo?

- A. chmod 1755 /bin/foo
- B. chmod 4755 /bin/foo

- C. `chmod u-s /bin/foo`
- D. `chmod 755+s /bin/foo`

**Answer:** B

#### NEW QUESTION 154

- (Exam Topic 4)

Which of the following statements is correct for a command line ending with a `&` character?

- A. The command's output is redirected to `/dev/null`.
- B. The result of the command defines if the next command will be run.
- C. The command is run in background of the current shell.
- D. The command is run as a direct child of the `init` process.

**Answer:** C

#### NEW QUESTION 159

- (Exam Topic 4)

Which of the following commands set the sticky bit for the directory `/tmp`? (Choose TWO correct answers.)

- A. `chmod +s /tmp`
- B. `chmod +t /tmp`
- C. `chmod 1775 /tmp`
- D. `chmod 4775 /tmp`
- E. `chmod 2775 /tmp`

**Answer:** BC

#### NEW QUESTION 163

- (Exam Topic 4)

Which of the following commands prints a list of available package updates when using RPM-based package management?

- A. `dpkg list`
- B. `yum list`
- C. `dpkg check-update`
- D. `yum check-update`
- E. `yum list-update`

**Answer:** D

#### NEW QUESTION 164

- (Exam Topic 4)

Which command is used to query information about the available packages on a Debian system?

- A. `apt-cache`
- B. `apt-get`
- C. `apt-search`
- D. `dpkg`
- E. `dpkg-search`

**Answer:** A

#### NEW QUESTION 167

- (Exam Topic 4)

Which type of filesystem is created by `mkfs` when it is executed with the block device name only and without any additional parameters?

- A. `ext2`
- B. `ext3`
- C. `ext4`
- D. `XFS`
- E. `VFAT`

**Answer:** A

#### NEW QUESTION 168

- (Exam Topic 4)

Which of the following is a limitation of the `cut` command?

- A. The `cut` command can only select output by field position.
- B. The `cut` command cannot reorder fields.
- C. The `cut` command only works on ASCII text.
- D. The `cut` command cannot use different input and output delimiters.

**Answer:** B

#### NEW QUESTION 173

- (Exam Topic 4)

Which of the following commands changes all occurrences of the word "bob" in file data to "Bob" and prints the result to standard output?

- A. sed '/bob/Bob' data
- B. sed 's/bob/Bob/g' data
- C. sed 's/bob/Bob/' data
- D. sed '/bob/Bob/' data
- E. sed 's/bob,Bob/' data

**Answer: B**

#### NEW QUESTION 174

- (Exam Topic 4)

Which of the following options must be passed to a filesystem's entry in /etc/fstab in order to mount the file system without root privileges?

- A. auto
- B. norestrict
- C. noauto
- D. user

**Answer: D**

#### NEW QUESTION 176

- (Exam Topic 4)

Which command reads and displays the current contents of the Kernel Ring Buffer on the command line? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

**Answer: A**

#### Explanation:

dmesg

#### NEW QUESTION 180

- (Exam Topic 4)

Which of the following commands will change the quota for a specific user?

- A. edquota
- B. repquota
- C. quota -e
- D. quota

**Answer: A**

#### NEW QUESTION 185

- (Exam Topic 4)

How can the list of files that would be installed by the RPM package file apache.xml.rpm be previewed?

- A. rpm -qp apache.xml.rpm
- B. rpm -qv apache.xml.rpm
- C. rpm -ql apache.xml.rpm
- D. rpm -qpl apache.xml.rpm

**Answer: D**

#### NEW QUESTION 190

- (Exam Topic 4)

Which of the following commands will mount an already inserted CD-ROM in /dev/sr0 onto an existing directory /mnt/cdrom when issued with root privileges?

- A. mount /dev/cdrom /mnt/cdrom
- B. mount /dev/sr0 /mnt/cdrom
- C. mount -t cdrom /dev/sr0 /mnt/cdrom
- D. mount -l cdrom /dev/sr0 /mnt/cdrom
- E. mount -f /dev/sr0/mnt/cdrom

**Answer: C**

#### NEW QUESTION 193

- (Exam Topic 4)

Which of the following examples for Bash file globbing matches a file named root-can-do-this.txt when used in the directory holding that file? (Choose three correct answers.)

- A. root\*can?do-this.{txt,odt}
- B. r[oOoO]t-can-do\*.txt
- C. {root,user,admin}-can-??-this.txt

- D. root\*can\*do??this.txt
- E. root\*\*\*{can,may}-do-this.[tT][xX][tT]

**Answer:** ABC

#### NEW QUESTION 198

- (Exam Topic 4)

What is the purpose of the xargs command?

- A. It passes arguments to an X server.
- B. It reads standard input (STDIN) and builds up command lines to execute.
- C. It helps shellscripts take variable argument lists.
- D. It asks a question, graphically, and returns the answer to the shell.
- E. It allows users to specify long options for commands that normally only accept short options.

**Answer:** B

#### NEW QUESTION 199

- (Exam Topic 4)

Which command is used to start another command with a given nice level? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

nice

#### NEW QUESTION 201

- (Exam Topic 4)

Which of the following shell commands makes the already defined variable TEST visible to new child processes? (Choose two.)

- A. visible TEST
- B. declare +x TEST
- C. declare -x TEST
- D. export TEST
- E. export -v TEST

**Answer:** D

#### NEW QUESTION 203

- (Exam Topic 4)

The system configuration file named \_\_\_\_\_ is commonly used to set the default runlevel. (Please provide the file name with full path information)

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

/etc/inittab

#### NEW QUESTION 207

- (Exam Topic 4)

Which of the following pieces of information of an existing file is changed when a hard link pointing to that file is created?

- A. File size
- B. Modify timestamp
- C. Link count
- D. Inode number
- E. Permissions

**Answer:** C

#### NEW QUESTION 209

- (Exam Topic 4)

In compliance with the FHS, in which of the following directories are documentation files found?

- A. /usr/share/documentation
- B. /usr/local/share/documentation
- C. /var/share/doc
- D. /usr/share/doc
- E. /etc/share/doc

**Answer:** C

#### NEW QUESTION 211

- (Exam Topic 4)

Which program updates the database that is used by the locate command?

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

updatedb

#### NEW QUESTION 216

- (Exam Topic 4)

Which of the following commands can be used to create a new file that is 100kB in size?

- A. dd
- B. file
- C. mkfile
- D. touch

**Answer:** A

#### NEW QUESTION 219

- (Exam Topic 4)

How is a symbolic link called bar.conf pointing to foo.conf created?

- A. In `ln -s foo.conf bar.conf`
- B. In `ln foo.conf bar.conf`
- C. In `ln -s bar.conf foo.conf`
- D. In `ln bar.conf foo.conf`

**Answer:** A

#### NEW QUESTION 221

- (Exam Topic 4)

When piping the output of find to the xargs command, what option to find is useful if the filenames have spaces in them?

- A. `-rep-space`
- B. `-print0`
- C. `-nospace`
- D. `-ignore-space`

**Answer:** B

#### NEW QUESTION 223

- (Exam Topic 4)

Which of the following is true for hard linked files? (Choose three.)

- A. The output of `stat` will report hard instead of regular file.
- B. The hard linked files have the same permissions and owner.
- C. The hard linked files share the same inode.
- D. The hard linked files are indicated by a `->` when listed with `ls -l`.
- E. The hard linked files must be on the same filesystem.

**Answer:** BCE

#### NEW QUESTION 226

- (Exam Topic 4)

Which of the following are filesystems which can be used on Linux root partitions? (Choose two.)

- A. NTFS
- B. ext3
- C. XFS
- D. VFAT
- E. swap

**Answer:** BE

#### NEW QUESTION 228

- (Exam Topic 4)

Which of the following command lines creates or, in case it already exists, overwrites a file called data with the output of `ls`?

- A. `ls 3> data`
- B. `ls >& data`

- C. ls > data
- D. ls >> data

**Answer:** C

#### NEW QUESTION 231

- (Exam Topic 4)

Which chown command will change the ownership to dave and the group to staff on a file named data.txt?

- A. chown dave/staff data.txt
- B. chown -u dave -g staff data.txt
- C. chown --user dave --group staff data.txt
- D. chown dave:staff data.txt

**Answer:** D

#### NEW QUESTION 234

- (Exam Topic 4)

Which of the following are modes of the vi editor? (Choose two.)

- A. edit mode
- B. insert mode
- C. change mode
- D. review mode
- E. command mode

**Answer:** BE

#### NEW QUESTION 236

- (Exam Topic 4)

Which of the following commands are common Linux commands for file management? (Choose three correct answers.)

- A. copy
- B. mv
- C. move
- D. cp
- E. mkdir

**Answer:** BDE

#### NEW QUESTION 240

- (Exam Topic 4)

Which of the following commands creates an ext3 filesystem on /dev/sdb1? (Choose TWO correct answers.)

- A. /sbin/mke2fs -j /dev/sdb1
- B. /sbin/mkfs -t ext3 /dev/sdb1
- C. /sbin/mkfs -c ext3 /dev/sdb1
- D. /sbin/mke3fs -j /dev/sdb1

**Answer:** AB

#### NEW QUESTION 242

- (Exam Topic 4)

Which of the following commands can be used to search for the executable file foo when it has been placed in a directory not included in \$PATH?

- A. apropos
- B. which
- C. find
- D. query
- E. whereis

**Answer:** C

#### NEW QUESTION 244

- (Exam Topic 4)

Which of the following commands changes the number of days before the ext3 filesystem on /dev/sda1 has to run through a full filesystem check while booting?

- A. tune2fs -d 200 /dev/sda1
- B. tune2fs -c 200 /dev/sda1
- C. tune2fs -i 200 /dev/sda1
- D. tune2fs -n 200 /dev/sda1
- E. tune2fs --days 200 /dev/sda1

**Answer:** C

#### NEW QUESTION 245

- (Exam Topic 4)

Which of the following commands will display the inode usage of each mounted filesystem?

- A. du -i
- B. df -i
- C. lsfs -i
- D. printfs -i

**Answer: B**

#### NEW QUESTION 250

- (Exam Topic 5)

When considering the use of hard links, what are valid reasons not to use hard links?

- A. Hard links are not available on all Linux systems because traditional filesystems, such as ext4, do not support them
- B. Each hard link has individual ownership, permissions and ACLs which can lead to unintended disclosure of file content
- C. Hard links are specific to one filesystem and cannot point to files on another filesystem
- D. If users other than root should be able to create hard links, suLN has to be installed and configured
- E. When a hard linked file is changed, a copy of the file is created and consumes additional space

**Answer: A**

#### NEW QUESTION 254

- (Exam Topic 5)

Which command must be entered before exiting vi to save the current file as filea.txt?

- A. %s filea.txt
- B. %w filea.txt
- C. :save filea.txt
- D. :w filea.txt
- E. :s filea.txt

**Answer: D**

#### NEW QUESTION 259

- (Exam Topic 5)

Which of the following commands displays the path to the executable file that would be executed when the command foo is invoked?

- A. lsattr foo
- B. apropos foo
- C. locate foo
- D. whatis foo
- E. which foo

**Answer: A**

#### NEW QUESTION 261

- (Exam Topic 5)

What is true regarding UEFI firmware? (Choose two.)

- A. It can read and interpret partition tables
- B. It can use and read certain file systems
- C. It stores its entire configuration on the /boot/ partition
- D. It is stored in a special area within the GPT metadata
- E. It is loaded from a fixed boot disk position

**Answer: BD**

#### NEW QUESTION 265

- (Exam Topic 5)

Which of the following directories on a 64 bit Linux system typically contain shared libraries? (Choose two.)

- A. ~/.lib64/
- B. /usr/lib64/
- C. /var/lib64/
- D. /lib64/
- E. /opt/lib64/

**Answer: AD**

#### NEW QUESTION 266

- (Exam Topic 5)

Which program runs a command in specific intervals and refreshes the display of the program's output? (Specify ONLY the command without any path or parameters.)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

watch

**NEW QUESTION 269**

- (Exam Topic 5)

Which of the following commands lists the dependencies of the RPM package file foo.rpm?

- A. rpm -qpR foo.rpm
- B. rpm -dep foo
- C. rpm -ld foo.rpm
- D. rpm -R foo.rpm
- E. rpm -pD foo

**Answer:** A

**NEW QUESTION 274**

- (Exam Topic 5)

When is the content of the kernel ring buffer reset? (Choose two.)

- A. When the ring buffer is explicitly reset using the command dmesg --clear
- B. When the ring buffer is read using dmesg without any additional parameters
- C. When a configurable amount of time, 15 minutes by default, has passed
- D. When the kernel loads a previously unloaded kernel module
- E. When the system is shut down or rebooted

**Answer:** AE

**NEW QUESTION 279**

- (Exam Topic 5)

A Debian package creates several files during its installation. Which of the following commands searches for packages owning the file /etc/debian\_version?

- A. apt-get search /etc/debian\_version
- B. apt -r /etc/debian\_version
- C. find /etc/debian\_version -dpkg
- D. dpkg -S /etc/debian\_version
- E. apt-file /etc/debian\_version

**Answer:** C

**NEW QUESTION 281**

- (Exam Topic 5)

Which of the following commands installs all packages with a name ending with the string foo?

- A. zypper get "\*\*foo"
- B. zypper update "foo?"
- C. zypper force "foo\*"
- D. zypper install "\*\*foo"
- E. zypper add ".\*foo"

**Answer:** D

**NEW QUESTION 282**

- (Exam Topic 5)

Which of the following commands installs GRUB 2 into the master boot record on the third hard disk?

- A. grub2 install /dev/sdc
- B. grub-mkrescue /dev/sdc
- C. grub-mbrinstall /dev/sdc
- D. grub-setup /dev/sdc
- E. grub-install /dev/sdc

**Answer:** E

**NEW QUESTION 287**

- (Exam Topic 5)

Which of the following regular expressions represents a single upper-case letter?

- A. :UPPER:
- B. [A-Z]
- C. !a-z
- D. %C
- E. {AZ}

**Answer:** B

#### NEW QUESTION 288

- (Exam Topic 5)

Which of the following statements are true about the boot sequence of a PC using a BIOS? (Choose two.)

- A. Some parts of the boot process can be configured from the BIOS
- B. Linux does not require the assistance of the BIOS to boot a computer
- C. The BIOS boot process starts only if secondary storage, such as the hard disk, is functional
- D. The BIOS initiates the boot process after turning the computer on
- E. The BIOS is started by loading hardware drivers from secondary storage, such as the hard disk

**Answer:** AD

#### NEW QUESTION 291

- (Exam Topic 5)

Consider the following output from the command `ls -li`:

```
525385 -rw-rw-r-- 2 1000 1000 0 Feb 12 19:44 a.txt
526255 lrwxrwxrwx 1 1000 1000 5 Feb 12 19:44 b.txt -> a.txt
```

How would a new file named `c.txt` be created with the same inode number as `a.txt` (Inode 525385)?

- A. `ln -h a.txt c.txt`
- B. `ln c.txt a.txt`
- C. `ln a.txt c.txt`
- D. `ln -f c.txt a.txt`
- E. `ln -i 525385 c.txt`

**Answer:** C

#### NEW QUESTION 293

- (Exam Topic 5)

Given a log file `loga.log` with timestamps of the format `DD/MM/YYYY:hh:mm:ss`, which command filters out all log entries in the time period between 8:00 am and 8:59 am?

- A. `grep -E ':08:[09]+:[09]+' loga.log`
- B. `grep -E ':08:[00]+' loga.log`
- C. `grep -E loga.log ':08:[0-9]+:[0-9]+'`
- D. `grep loga.log ':08:[0-9]:[0-9]'`
- E. `grep -E ':08:[0-9]+:[0-9]+' loga.log`

**Answer:** E

#### NEW QUESTION 296

- (Exam Topic 5)

What is the first program the Linux kernel starts at boot time when using System V init?

- A. `/lib/init.so`
- B. `/proc/sys/kernel/init`
- C. `/etc/rc.d/rcinit`
- D. `/sbin/init`
- E. `/boot/init`

**Answer:** D

#### NEW QUESTION 301

- (Exam Topic 5)

Which of the following files, located in a user's home directory, contains the Bash history?

- A. `.bashrc_history`
- B. `.bash_histfile`
- C. `.history`
- D. `.bash_history`
- E. `.history_bash`

**Answer:** B

#### NEW QUESTION 302

- (Exam Topic 5)

Which of the following commands changes all CR-LF line breaks in the text file `userlist.txt` to Linux standard LF line breaks and stores the result in `newlist.txt`?

- A. `tr -d '\r' < userlist.txt > newlist.txt`
- B. `tr -c '\n\r' " <newlist.txt> userlist.txt`
- C. `tr '\r\n' " <userlist.txt> newlist.txt`
- D. `tr '\r' '\n' userlist.txt newlist.txt`
- E. `tr -s '/^M/^J/' userlist.txt newlist.txt`

**Answer:** A

#### NEW QUESTION 304

- (Exam Topic 5)

Which umask value ensures that new directories can be read, written and listed by their owning user, read and listed by their owning group and are not accessible at all for everyone else?

- A. 0750
- B. 0027
- C. 0036
- D. 7640
- E. 0029

**Answer: B**

#### NEW QUESTION 308

- (Exam Topic 5)

Which of the following commands list all files and directories within the /tmp/ directory and its subdirectories which are owned by the user root? (Choose two.)

- A. find /tmp -user root -print
- B. find -path /tmp -uid root
- C. find /tmp -uid root -print
- D. find /tmp -user root
- E. find -path /tmp -user root -print

**Answer: AE**

#### NEW QUESTION 310

- (Exam Topic 5)

What does the command mount --bind do?

- A. It makes the contents of one directory available in another directory
- B. It mounts all available filesystems to the current directory
- C. It mounts all user mountable filesystems to the user's home directory
- D. It mounts all file systems listed in /etc/fstab which have the option userbind set
- E. It permanently mounts a regular file to a directory

**Answer: A**

#### NEW QUESTION 314

- (Exam Topic 5)

Which command uninstalls a package but keeps its configuration files in case the package is re-installed?

- A. dpkg -s pkgname
- B. dpkg -L pkgname
- C. dpkg -P pkgname
- D. dpkg -v pkgname
- E. dpkg -r pkgname

**Answer: E**

#### NEW QUESTION 316

- (Exam Topic 5)

Which of the following commands prints a list of usernames (first column) and their primary group (fourth column) from the /etc/passwd file?

- A. fmt -f 1,4 /etc/passwd
- B. cut -d : -f 1,4 /etc/passwd
- C. sort -t : -k 1,4 /etc/passwd
- D. paste -f 1,4 /etc/passwd
- E. split -c 1,4 /etc/passwd

**Answer: B**

#### NEW QUESTION 317

- (Exam Topic 5)

Which of the following vi commands deletes two lines, the current and the following line?

- A. d2
- B. 2d
- C. 2dd
- D. dd2
- E. de12

**Answer: C**

#### NEW QUESTION 321

- (Exam Topic 5)

What is true regarding the command  
ls > files

if files does not exist?

- A. The output of ls is printed to the terminal
- B. files is created and contains the output of ls
- C. An error message is shown and ls is not executed
- D. The command files is executed and receives the output of ls
- E. Any output of ls is discarded

**Answer: B**

#### NEW QUESTION 323

- (Exam Topic 5)

Which wildcards will match the following filenames? (Choose two.) ttyS0  
ttyS1 ttyS2

- A. ttyS[1-5]
- B. tty?[0-5]
- C. tty\*2
- D. tty[A-Z][012]
- E. tty[Ss][02]

**Answer: BD**

#### NEW QUESTION 326

- (Exam Topic 5)

The command `dbmaint &` was used to run `dbmaint` in the background. However, `dbmaint` is terminated after logging out of the system. Which alternative `dbmaint` invocation lets `dbmaint` continue to run even when the user running the program logs out?

- A. `job -b dmaint`
- B. `dbmaint &>/dev/pts/null`
- C. `nohup dbmaint &`
- D. `bg dbmaint`
- E. `wait dbmaint`

**Answer: D**

#### NEW QUESTION 330

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